OIPE JC68
MAY 31 2002
PATENT & TRADEMARK OFFICE

ABSTRACT

[0070] A motor including a stator containing first and second windings driven by alternating currents; a rotor arranged to rotate relative to the stator containing third and fourth windings for generating a magnetic field having an amplitude and phase angle relative to the alternating currents in the first and second windings; and a circuit in communication with the third and fourth windings for controlling the phase angle of the magnetic field and generating a rotating magnetic field that is in phase-lock with the alternating currents. A generator including a stator arranged to rotate relative to the stator and a circuit for controlling the phase angle of a generated magnetic field and generating a rotating magnetic field that is in phase-lock with the alternating current. A method of controlling a stator and a rotor arranged to rotate relative to the stator and measuring and correcting torque ripple generated by the motor.